

Equipment for Testing ....

Z/032/61/011/006/003/004  
E073/E335

speed variation can be obtained. The photograph, Fig. 1, shows the overall arrangement of the equipment; the operating range of the machinery has been so chosen that for a 6 mm dia. specimen of a strength up to 120 kg/mm<sup>2</sup> the minimum speed should be comparable with that of pendulum impact test machines, i.e. 5 m/sec. The maximum theoretical speed is 219.8 m/sec. The practically achieved maximum speed was measured at 187.3 m/sec. The disc is 650 mm in diameter, 40 mm wide at the rim and its mass is large enough to prevent reduction of the minimum speed during fracturing of the specimen by more than 1.4%. The theoretically permissible maximum r.p.m. are 6 000. Fig. 6 is a dimensional sketch of the dynamometer (odporový tenzometr = strain gauge). Fig. 7 is a dimensional sketch of the test specimen. The strain gauges are of Czech manufacture. For several Czech steels the loading force - time diagrams were recorded oscillographically and these oscillograms enable determining the influence of the loading speed on the mechanical properties and determining the time required for achieving

Card 2/6

Equipment for Testing ....

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limit states. Very good agreement was obtained between the theoretical relations derived on the basis of the dislocation theory of Cottrell and Campbell, who investigated the influence of the loading speed and temperature on the yield point of low-carbon steels, and experimental results obtained at test temperatures between +21 °C and -60 °C. The plot, Fig. 10, shows theoretical curves (Curves 1), theoretical curves according to Campbell (Curves 2) and experimental values (O) measured by the author. There are 10 figures, 2 tables and 16 references: 3 Czech and 13 non-Czech. The four latest English-language references are: Ref. 6 - Clark, 1947, ASTM, Proceedings, No. 47; Ref. 13 - Gibson, 1952, Proc. Inst. mech. Eng., No. 1; Ref. 15 - Hendrickson, 1958, Trans. ASM, No. 50 and Ref. 16 - Clark, 1949, ASTM, Proceedings, No. 49.

ASSOCIATION: LZ, Pilsen

Card 3/6

I 22066-66 EXP(u)/T/AMP(t) ID

ALL RPT AP6010702

SOURCE CODE: CZ/0034/65/000/004/0261/0267

AUTHOR: Kermes, Jaroslav (Engineer; Candidate of sciences)

41

ORG: Research and Testing Institute, ZVIL, Plzen (Vyzkumný a zkusební ústav ZVIL) B

TITLE: Effect of some metallurgical factors on the mechanical properties of rolled  
products of great thickness 44.5.1 P8

SOURCE: Hutnické listy, no. 4, 1965, 261-267

TOPIC TAGS: aluminum, solid solution, metal property, solid mechanical property,  
steel, titanium, metallurgic furnace

ABSTRACT: The properties of the product are basically a function of the metallurgical properties of the metal. The most important single factor is the Al content of the metal; the optimum amount should be present as a solid solution in the metal. The property influenced to the greatest extent is the notch toughness. The process must be conducted so that the required amount of aluminum be present in solution; simply adding the suitable amount of Al to the charge is not enough. 1 kg of Al and 0.5 kg of Ti per ton of steel are usually adequate for open hearth furnace heats and atmospheric pressure teeming. For electric furnace heats, and for ingot casting into evacuated molds, the amounts should be checked for individual equipment, and suitably modified. Orig. art. has: 13 figures and 8 tables. [JPRS]

SUB CODE: 11 / SUBM DATE: none / ORIG REF: 008 / SOV REF: 002

UDC: 621.944.3-412: 669.18

Card 1/1 MJS

KERMOYAN, Diran V.,

"The Conductivity of Sodium Aluminate Solutions" by Kermoyan, M. G. Manveyan,  
and L. G. Shaginyan, Izvestiya, Armenian Academy of Sciences, X,5, 305-313, 1957.

"The Conductivity of Concentrated Solutions of Sodium and Potassium Hydroxides,  
Their Carbonates, and Mixtures of NaOH and KOH at 25° by Kermoyan, Manvelyan,  
A. G. Eganyan, and A. M. Kocharyan, Izvestiya, Armenian Academy of Sciences,  
VIII, 4, 73-78, 1955.

"Effect of Temperature on Electric Conductivity of Concentrated Solutions of  
NaOH, KOH, Na<sub>2</sub>CO<sub>3</sub>, and K<sub>2</sub>CO<sub>3</sub>" by Kermoyan, Manveyan, Eganyan and Kocharyan,  
Izvestiya, Armenian Academy of Sciences, IX, 2, 3-12, 1956.

"Study of the Electric Conductivity of Solutions of Sodium Silicate" by Kermoyan,  
Manvelyan, and Eganyan, Izvestiya, Armenian Academy of Sciences, X, 4, 225-236,  
1957.

VAYIS, I. S.; GOLDRING, A. L.; KADISHOV, I. S.; Primenenie uchastiyev KERN, A. P.

Ob' ekvilibriu mezhdu neraquacis' soluzionia of copper compounds  
with tetramethylthiurem disulfide and aqueous solutions of  
silver and mercury. Ukr. khim. zhur. 30 no. 5:452-457 '64.  
(MIRA 18:4)

I. Institut khimii Khar'kovskogo gosudarstvennogo universiteta.

ACCESSION NR: AP4035096

S/0032/64/000/005/0631/0632

AUTHORS: Vatolin, N. A.; Kern, E. M.

TITLE: Apparatus for measuring the density of molten metals at high temperatures

SOURCE: Zavodskaya laboratoriya, no. 5, 1964, 631-632

TOPIC TAGS: molten metal density, density measurement, high melting metal, amperovoltmeter Ts 315

ABSTRACT: An apparatus was developed for determining the density of molten metals and alloys with high melting points. It operates by measuring the level melt and represents an improvement on the apparatus designed by D. A. Petrov and V. M. Glazov (Zavodskaya laboratoriya, XXIV, 1, 34, 1958). In the improved model (see Fig. 1 of the Enclosure) a crucible (1) is suspended by molybdenum wires (3) with a coefficient of thermal expansion equal to that of the rods (4). The heating assembly contains a graphite element (5), a quartz or graphite screen (6), a water-cooled case (7), and a thermocouple (8). The joints in the case are sealed with rubber gaskets (10). A movable bar (12) operates through a Wilson joint (11) and is connected to an external micrometric adjuster (13). One of the rods (4) is

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ACCESSION NR: AP4035096

connected to the case and the other to an ohmmeter (14). The circuit is closed when the rods reach the metal. To prevent melting of the rods, they are kept from touching the molten metal by bearing against an alundum boat (15) with its bottom either covered with molybdenum foil or rubbed with graphite. Before starting the operation, the apparatus is evacuated to  $10^{-2}$  mm Hg and is filled with an inert gas. The crucible is graduated for volume at room temperature. Density determinations of molten iron and silicon produced values close to those obtained by other methods. Orig. art. has: 1 figure.

ASSOCIATION: Institut metallurgii Ural'skogo filiala Akademii nauk SSSR (Metallurgical Institute, Ural Branch, Academy of Sciences SSSR)

SUBMITTED: 00

DATE ACQ: 20May64

ENCL: 01

SUB CODE: MM

NO REF Sov: 001

OTHER: 001

Card 2/3

CHOJECKI, Zygmunt; KERN, Fred

Effect of experimental liver cirrhosis and of CCl<sub>4</sub> intoxication  
on glucuronic transferase activity in rat livers. Polskie arch.  
med. wewnetrz. 31 no.2:147-160 '61.

1. Z Department of Internal Medicine, University of Colorado School  
of Medicine, Denver, U.S.A. Kierownik: prof. dr G. Meiklejohn.

(LIVER CIRRHOSIS exper) (CARBON TETRACHLORIDE toxicol)  
(TRANSFERASES metab) (LIVER metab)

*KEBN - GUSTAV*

✓ Extracted coal briquetted without binders. Vladimír  
Včelák and Gustav Kern, *Paliva* 32, 235-8 (1952); cf.  
*ibid.* 31, 297-303 (1951). Solid fuels for these expts. were  
coals with high content of wax and extd. coals in ratios of  
1:1, 1:2, and 1:3. The briquetting was done at room  
temp., at 600°, and at 800° on an Amstel press. Heat-  
treatment had no effect on the mech. properties of the bri-  
quets; it only decreased water absorption. J. Lederec

KERN, G.

VCELAK, V., KERN, G.

" Briquetting Powdery Iron Ores." p.6.  
(Rudy, Vol.1, No.1, Feb. 1953, Praha.)

SO: Monthly List of East European Accessions, Vol.3, No.3; Library of Congress, March 1954,  
Uncl.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530007-6

KERN, Henryk, doc., dr.

Agricultural Research Institute Biebrza. Gosp wodna 22 no.1:43-44  
'62.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530007-6"

KERN, Henryk, prof., dr.

Physiography of meadows in the Opatowka valley considering the erosion dynamics of the catchment area on the loess in the district of Sandomierz. Gosp wodna 22 no.1:44 '62.

KERN, Jozef, inz.

Analysis of the influences on time consumption in timber  
hauling by tractors. Les cas 10 no. 4:371-400 Ap '64.

1. Research Institute of Forestry, Banska Stiavnica, Research  
Station Oravsky Podzamok.

KERN, Jozef, inz.

Fuel consumption in hauling timber by the TDT-40 tractors.  
Les cas 9 no. 11: 1049-1060 N '63.

1. Vyskumny ustav lesneho hospodarstva, Banska Stiavnica,  
Vyskumna stanica Oravsky Podzamok.

KERN, Jozef, inz.

Extension of winch rope into the stands; the most straining operation of timber logging and possibilities of making it easier. Les cas 9 no.10:931-940 0 '63.

1. Vyskumny ustav lesneho hospodarstva, Banska Stiavnica,  
Vyskumna stanica Oravsky Podzamok.

KERN, Josef, inz.

Full-tree skidding of conifer timber by the TMT-40 and Zetor 50  
Super tractors. Les cas 10 no.11:971-986 N '64.

1. Research Institute of Forestry, Banska Stiavnica, Research  
Station Oravsky Podzamok.

KERN, L.

RUMANIA/Microbiology - General Microbiology .

F-1

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67054

Author : Teitel, M., Kern. L., Constantin. St.

Inst :

Title : The Youmans' Culture Medium with Egg Yolk for Inoculations  
in the Diagnosis of Tuberculosis.

Orig Pub : Ftiziologia, 1957, 6, No 6, 549-553

Abstract : No abstract.

Card 1/1

- 2 -

KERN, V.

Structure of production costs and the application of bonus scales to  
engineering and technical workers and employees of enterprises.  
Biul. nauch. inform.: trud i zar. plata 4 no.1:31-35 '61.

(Leningrad—Machinery industry—Costs) (Bonus system) (MIRA 14:3)

KERN, V.

Norms for issuing funds for wages when the production plan is  
overfulfilled. Biul.nauch. inform.: trud i zar. plata 4 no.8:  
20-24 '61. (MIRA 14:10)  
(Leningrad Province--Wages--Machinery industry)

KERN, V.G.

AID P - 2187

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 7/19

Authors : Yakovlev, B. V. and Kern, V. G.

Title : Use of aerosols obtained by means of compressed air for the disinfestation of passenger cars

Periodical : Gig. i san., 5, 32-34, My 1955

Abstract : A method is described and recommended for the extermination of insects in passenger cars by means of DDT solutions. The compressed air, which is used for the testing of brakes and is always available in railroad switch yards, transforms these solutions into foggy substances. The cars are sprayed with these DDT aerosols which kill the insects and do not cause any material damage. This disinfestation method is used now on the Oktyabr'skaya (October) Railroad. Six Russian references (1949-1951).

Institution : Medical and Epidemiological Station of the Oktyabr'skaya (October) Railroad

Submitted : Ap 21, 1954

KHEN, V.G.; YAKOVLEV, B.V.

Experience in disinfection of surfaces with chloramine aerosols.  
Zhur.mikrobiol.epid. i immun. 27 no.4:112-115 Ap '56. (MLRA 9:?)

1. Is dorozhnay i Leningrad-Moskovskoy sanitarno-epidemiologicheskoy  
stantsii Oktyabr'skoy zheleznoy dorogi.

(CHLORAMIDE

aerosols for disinfection of surfaces)

(DISINFECTION AND DISINFECTANTS

surfaces, with chloramine aerosols)

(AEROSOLS

chloramine for disinfect.)

KERN, V. G., YAKOVLEV, B. V.

"Experience of the use of aerosols obtained by means of compressed air for the disinsectization and disinfection of surfaces."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

YAKOVLEV, B.V.; KERN, V.G.

Disinfectant properties of chloramine solutions as related to the degree of atomization; author's abstract. Zhur.mikrobiol., epid.i immun. 30 no.11:119 N '59. (MIRA 13:3)

1. Iz Dorozhnoj sanitarno-epidemiologicheskoy stantsii Oktyabr'skoy zheleznoy dorogi. (CHLORAMINE)

APPROVED FOR RELEASE: 06/13/2000 (Narodnaya Respublika) CIA-RDP86-00513R000721530007-6"

Connection of the nervous system of the mother and fetus and the neurophysiology of labor. Akush.i gin. 35 no.5:15-22 S-O '59. (MIRA 13:2)

(PREGNANCY, physiol.)  
(FETUS, physiol.)  
(LABOR, physiol.)

KERNc, J.

"Electromagnetic relays. Performance, structure, measurements"  
by P. Chougnet. Reviewed by J. Kernc. Rud met zbor no.1:51-52  
'62.

KERNIC, J.

"Connections of strong current technics" by Fritz Henze. Vol. 2:  
"The control and regulation connections." 2d ed. Reviewed by J.  
Kernic. Rud met zbor no.1:52-53 '62.

KERN, J.

"Fundamental knowledge of engineers." 4th ed. Reviewed by J.  
Kernc. Rud met zoor no.1:53 '62.

KERNIC, J.

"Applied television techniques in industry, household, and science"  
by Gerhard Schaaf. Reviewed by J. Kernic. Rud met zbor no.1:  
86 '62.

KERNIC, J.

"The little lexicon of formulas" by A. Arndt. 5th ed. Reviewed  
by J. Kernic. Rud met zbor no.1:90 '62.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530007-6

KERNIC, J.

"Electric and electronic measures" by J. Thurin. Reviewed by  
J. Kernic. Rud met zbor no.1:85-86 '62.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530007-6"

KERNIC, J.

"Computing the flow of electric circles" by Klaus Lunze. 2d ed.  
Reviewed by J. Kernic. Rud met zbor no.1:89-90 '62.

KERNIC, J.

"Some problems in the field of electrical engineering"  
by G. Mierdel and S. Wagner. 2d ed. Reviewed by J. Kernic.  
Rud met zbor no.3:276 '62.

KERNIC, J.

"Theoretical bases of electrical engineering" by [deceased]  
P.L. Kalantarow [Kalantarov, P.L.], and L.R. Neumann.  
Vol.1. 2d ed. Reviewed by J. KERNIC. Rud met zbor no.3:287  
'62.

KERNC, Janko, inz.

Bases of the automatic steering of conveying machinery. Rud met zbor  
no.2:151-159 '62.

1. Oddelek za montanistiko Univerze v Ljubljani, Askerceva 20.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530007-6

KERNIC, J.

\*Electric measures (Continuous and low frequency)\* by Jean Baurand.  
Vol. 2. Reviewed by J. Kernic. And met zbor no.2:161 '62.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530007-6"

K. Cazafura; PAVKO, D.; SIRCA, F.; KERSNIC, Viktor, prof. dr. inz.;  
KOSAK, K.; GRAFENAUER, S.; PODGORNIK, A.; KERNIC, J.; DOBOVISEK,  
Bogomir, docent, dr. inz.; OCEPEK, Drago, docent, dr. inz.;  
HOMAN, A.; MARCEC, M.; RANKEL, J.; CRNIVEC, M.; SMAJIC, N.;  
CUCEK, I.; KERSNIC, V., ml.; VODOPIVEC, F.

New books. Rud met zbor no. 2:144-187 '63.

1. Glavni urednik, "Rudarsko-metalurski zbornik" (for  
Viktor Kersnic).
2. Clani Uredniskega odbora, "Rudarsko-metalurski zbornik"  
(for Dobovisek and Ocepek).

SIRCA, F.; DOBOVISEK, Bogomir, docent, dr. inz.; GRAFENAUER, S.; KOSOVINC, I.;  
HAMRLA, B.; VODOPIVEC, F.; KUSCER, D.; KERNIC, J.; DROBNE, F.;  
PAVKO, D.; CAZAFURA, K.; TURK, St.; OCEPEK, Drago, docent, dr. inz.;  
ROSINA, A.; ZUMER, M.; SOVINC, I.

New books. Rud met zbor 4:431-457 '63.

1. Članovi Uredniškega odbora, "Rudarsko-metalurški zbornik"  
(for Dobovisek and Ocepek).

PAULIN, A.; OCEPEK, D.; CAZAFURA, K.; KUSCER, D.; VODOPIVEC, F.; SOVINC, I.;  
PAVKO, D.; JURCA, S.; KERNIC, V.; DRNOVSEK, J.; GRAFENAUER, S.;  
KERNIC, J.

New books. Rud met sbor 3:307-334 '64.

KERNC, Kresimir; BOSNAR, Marijan; RUDEZ, Vidko

Transverso-axial stratigraphic anatomy of the lung. Rad. med.  
fak. Zagreb. 11 no.1:23-32 '63.

(LUNG) (TOMOGRAPHY) (THORACIC RADIOGRAPHY)

S

KERNC, Kresimir; BOŠNAR, Marijan; RUDEZ, Vidko

Transverso-axial stratigraphic anatomy of the lung. Rad. med.  
fak. Zagreb. 11 no.1:23-32 '63.

(LUNG) (TOMOGRAPHY) (THORACIC RADIOGRAPHY)

5

BORIC, Dragica, dr.; KERNC, Kresimir, dr.

Comparative clinical studies on oral cholecystography with  
triiodinated and diiodinated contrast media. Lijecn. vjesn.  
83 no.3:231-238 '61.

l. Iz Zavoda za radiologiju Opće bolnice dra M. Stojanovica u  
Zagrebu. (CONTRAST MEDIA) (CHOLECYSTOGRAPHY)

BASIC, Marko, dr.; KIRHMAJER, Vladimir, dr.; KERNIC, Kresimir, dr.

Our experience in the treatment of malignant ovarian tumors.  
Lijecni vjesn. 85 no.1:15-20 '63.

1. Iz Zavoda za radiologiju Opce bolnice "Dra M. Stojanovica"  
u Zagrebu.

(OVARIAN NEOPLASMS) (SURGERY, OPERATIVE)  
(NEOPLASM RADIOTHERAPY) (NEOPLASM STATISTICS)

S

KERN-JEDRZYCHOWSKI, T.

(MOTORYZACJA, Vol. 9, No. 12, Dec. 1953, Warszawa, Poland)

"To consideration of the methods of exploitation planned for the year 1954."  
p. 333.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

KERN-JADRYCHOWSKI, T.

"Planning the Work of a Truck Driver." p. 43, (MOTORYZACJA, Vol. 9,  
No. 2, Feb. 1954, Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC,  
Vol. 3, No. 12, Dec. 1954, Uncl.

KERNIC, J.

On inductive heating and its use for tempering and soldering. p. 372.  
(Nova Proizvodnja. Vol. 7, no. 6, Feb. 1957, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) 18, Vol. 6, no. 7, July 1957, Uncl.

KERNIC, Kresimir

Significance and role of sagittal layers in diagnostic examination  
of the lung. Rad. med. fak. Zagreb 8 no.3:261-276 '60.

(LUNG DISEASES diag)

KERNEL G.

Total photonuclear absorption in aluminum. M. V.  
Mihailović, G. Prešl, G. Kernel, and M. Kregar (J. Stefan  
Inst., Ljubljana, Yugoslavia). Phys. Rev. 114, 1021-2  
(1959).—Max. of total photonuclear absorption cross sec-  
tion in Al is  $100 \pm 10$  mb.; integrated cross section is estd.  
// about 800 mb.-m.e.v. Jack J. Bulloff.

6

KERNER, A.

KROMPECHER, St.; LEIKES, Gy.; GALAMB, B.; KERNER, A.

Effect of dietary intake of egg shells on blood formation. Acta  
physiol. hung. 11(Suppl):68-69 1957.

1. Institut fur Anatomie, Histologie und Embryologie der Medizinischen  
Universitat, Debrecen.

(EGGS

egg shell, eff. of dietary intake on erythrocyte form.  
in rats (Ger))

(ERYTHROCYTES

form., eff. of dietary intake of egg shells in rats (Ger))

**KERNER, AURELNE**  
LODY, Laszlo, Dr.; KROMPECHER, Istvan, Dr.; LELKIS, Gyorgy, Dr.; MESZAROS, Lajos,  
Dr.; KERNER, Aurelne

Effect of eggshell feeding on blood formation in children. Orv. hetil.  
99 no.6:192-194 9 Feb 58.

1. A Nyirbatori Allami Csecsemootthon (vezeto-foorvos: Lody Laszlo dr.)  
es a Debreceni Orvostudomanyi Egyetem Anatomiai, Szovet- es Fejlodesztani  
Intezetenek (igazgato: Krompecher Istvan dr. egyet. tanar) kozlemenye.

(EGGS

eggshell feeding inducing increased erythropoiesis in child.  
(Hun))

(ERYTHROCYTES

form., increase induced by eggshell feeding of child. (Hun))

L 17778-63  
RM/WW/MAY

EPR/EPF(J)/EPF(c)/ENT(m)/BDS

AFFTC/ASD

Ps-4/Po-4/Pr-4

ACCESSION NR: AP3005854

S/0051/03/015/002/0274/0280

76

AUTHOR: Averina, L.N.; Kerner, B.I.; Nikulina, R.A.; Sokolovskaya, T.I.; Tsirlin, Yu.A.

72

TITLE: Light collection in scintillators

SOURCE: Optika i spektroskopiya, v.15, no.2, 1963, 274-280

TOPIC TAGS: scintillator, light collection, scintillator design

ABSTRACT: Expressions are derived for the light collecting coefficient  $\tau$  of a cylindrical scintillator with polished surfaces and no packaging. The light-collecting coefficient is defined as the ratio of the radiant energy emerging through one face of the scintillator and entering the photomultiplier to the total energy produced by the scintillations in the volume of the scintillator with an absorption coefficient  $k$  and an index of refraction  $n$ . Knowledge of  $\tau$  is obviously important for designing efficient scintillators and evaluating their overall efficiency. Fresnel reflection from the glass face of the photomultiplier tube is taken into account (reflections from the top and bottom ends of the cylinder compensate each other). The results of calculations by means of the deduced formulas were compared with experiment in two ways: 1) modelling, using a plexiglas cup filled with

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L 17778-63

ACCESSION NR: AP3005054

4

glycerol into which there was lowered a glass sphere with a persistent phosphor, and 2) measurements with standard plastic scintillators (polystyrene + terphenyl + POPOP) 20 mm in diameter and of different heights, irradiated from an alpha-particle source. The experimental variation of  $\tau$  with the height of the scintillator cylinder is consistent with the calculated dependence. Thus, the deduced formulas can be used for qualitative design calculations as well as for quantitative evaluations if the basic parameters of the scintillator material are known. We thank L. L. Nagornaya for supplying the optical characteristics of the plastic and V. L. Timan for programming the necessary computations on a computer." Orig.art.has: 28 formulas and 8 figures.

ASSOCIATION: none

SUBMITTED: 200ct62

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: PH

NO REF Sov: 005

OTHER: 002

Card 2/2

KERBER, D.B.

TOlstov, Mikhail Alekseyevich; KERNER, D.B., inzhener, retsenzent; KUVSHIN-SKIY, V.V., kandidat tekhnicheskikh nauk, redaktor; DUGINA, N.A., tekhnicheskiy redaktor  
[Pneumatic and pneumatic-hydraulic attachments] Pnevmaticheskie i pnevmogidravlicheskie prisposobleniya. Izd. 2-ee, dop. i perer. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956.  
202 p. (MLRA 10:4)  
(Machine tools--Attachments)

KUBIAK, Marian; KERNER, Gunter

Changes of some physical properties, compression strength and chemical composition of beechwood in the initial stage of decomposition by fungi Coniophora cerebella Pers. and Stereum hirsutum Willd. Drevarsky vyskum no.4:181-193 '63.

1. Institut fur Forstnutzung, Landwirtschaftliche Hochschule, Poznan (for Kubiak). 2. Institut fur physikalische Holztechnologie und Chemisches Institut fur Forstwirtschaft, Eberswalde (for Kerner).

S/194/62/000/002/008/096  
D230/D301

AUTHOR: Kerner, Immo O.

TITLE: Automatic digital computer "ZRA1"

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 2, 1962, abstract 2-1-61b (Nemotskiy export, 1961,  
no. 15, 20-21)

TEXT: Description of the first digital computer ZRA1, released in  
batch production by the State Concern Karl Zeiss, Jena (E. Germany).  
All logical circuits of the control unit are ferrite circuits. The  
circuit of a logical element consists of two core-transmitters and  
a core-receiver. Each of the core-transmitters can exist in condi-  
tion 0 or 1. The core windings are so designed that the circuit  
contains the resistance of the transmitter circuit. ZRA1 is provi-  
ded with a magnetic drum of 4096 cell capacity; drum rotation ve-  
locity 11,600 rpm, mean selection time 0.25 millisec. The device  
for feeding the perforated cards processes 80 cards per minute.  
Since the number or the command is contained in each line of the

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S/194/62/000/002/008/096  
D230/D301

Automatic digital computer ZRA1

card, the magnetic drum can be filled within 4 minutes. The output results are printed by means of a mechanical device. ZRA1 operates on a double computing system. The scaling of numbers from one computing system to another is accomplished by means of a sub-program. The cell contains 48 double classes, specially subdivided for numbers and for instructions. The instruction presentation is performed by 4 groups of numbers, 3 classes in each. The following groups are considered: Computing, analytical, transmitting and address. Observing certain conditions, these 4 groups can be combined in almost any way, thus providing the registration of a larger number of commands. All 4 groups operate almost always in parallel. Because of this, for processing, say, 150 instructions, the effective speed of operation is 600 per sec. In carrying out the computing operations it is assumed that the first number of the operation is always in the register of results and the second number in one of the eight high-speed memory systems. There exists a great number of sub-programs for ZRA1; frequently, compiled systems are also processed with double accuracy using automatic programming. *[Abstracter's note: Complete translation.]*

Card 2/2

KERNER, Imo (Jena)

The ZRA 1 computing machine. Musz elet 16 no.5:10 Mr '61. (EEAI 10:4)  
(Germany, Eastern--Calculating machines)

KERNER, J

"Struggling for a Better Quality of Industrial Products." p. 361 (ELEKTROTECHNICKÝ OBZOR, Vol. 42, No. 7/8 July/Aug. 1953, Praha, Czechoslovakia )

SO: Monthly List of East European Accessions, LC., Vol. 3, No. 5 May 1954, Unclassified

KERNER, J.

Short-Circuit Laboratory of the Research Institute of Heavy-Current  
Engineering increases the quality of electrotechnical production. p. 347.

ELEKTROTECHNIK Vol. 10, no. 11, Nov. 1955

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

GARAMVOLGYI, N.; KERNER, J.; CSER-SCHULTZ, M.

The cross striation of the insect flight muscle at different  
sarcomere lengths. Acta physiol. acad. sci. Hung. 24 no.4:  
381-390 '64

1. Institute of Biophysics, Medical University, Pecs.

Mihályi

Akaiyamichi, I., KÉPNER, et al Institute of Biophysics, Medical University (Orvostudományi Szeminárium Szövetsége), Pécs.

"Electron microscopic investigations of the localization of minerals in the cross-striated muscle fibril."

Acta physiologica Academiae Scientiarum Hungaricae, Budapest, Acta physiologica Academiae Scientiarum Hungaricae, Vol. 21, No. 3-4, 1962, pp 249-257.

Abstract: (English article) Authors' English summary abstract: The localization of inorganic substances in the cross-striated muscle fibril was studied by microincineration of the fibrils followed by electron microscopic study. Most of the ash is found in the A-band. A study of stretched and of twisted fibrils resulted in the suggestion that the inorganic substances in the fibril may be shifted as a result of the changes in the functional state of the fibrill. Of all references, about one-third are Hungarian and two-thirds are Western.

171

Electron microscopic investigations into the localization of minerals in the cross-striated muscle fibril. Acta physiol. acad. sci. hung. 22 no.3/4:249-257 '62.

1. Institute of Biophysics, Medical University, Pécs.  
(MUSCLES) (CALCIUM) (POTASSIUM) (MAGNESTUM)

KERNER, Josef, inz.

International cooperation of socialist countries in the fine mechanics industry. Jemna mech opt 5 no.12-357-360 D '60.

1. Ministerstvo všeobecného strojírenství, Praha.

PHASE I BOOK EXPLOITATION

538

Kerner, M.S., Engineer

Poluavtomaticheskaya svarka elektrozaklepami (Semiautomatic Method of Electric Plug Welding) Leningrad, 1955. 13 p. (Series: Leningradskiy dom nauchno-tehnicheskoy propagandy. Informatsionno-tehnicheskiy listok, no. 94 /782) 7,000 copies printed.

Sponsoring Agencies: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy, and Leningradskiy dom nauchno-tehnicheskoy propagandy.

Ed.: Ryzhik, Z.M.; Tech. Ed.: Gvirts, V.L.

PURPOSE: This pamphlet is intended for welders.

COVERAGE: The pamphlet presents a brief description of two semi-automatic welding guns, one intended for submerged arc plug welding in horizontal position, the other for electric plug welding in vertical position using flux disks. Detailed drawings of these two welding guns and diagrams of electric circuits are

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APPROVED FOR RELEASE: 06/13/2000

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Semiautomatic Method of Electric Plug Welding

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included. The author designed these two units with the aid of N.V. Kornil'yev. There are no references.

TABLE OF

CONTENTS: None

AVAILABLE: Library of Congress

Card 2/2

JG/ad  
9-10-58

KERNER, Mendel' Saulovich

DREYZENSHTOK, Zundel' Borisovich; KERNER, Mendel' Saulovich; DORMIDONTOV, F.K.,  
redaktor; KONTOROVICH, A.I., tekhnicheskij redaktor.

[Semiautomatic electric arc welding of dowels and electric plug  
welding] Poluavtomaticheskaja elektrodugovaia privarka shpilek i  
svarka elektrosaklepami. Leningrad, Gos.sciuznoe izd-vo sudec-  
stroit. promyshl., 1955. 23 p.  
(Electric welding)

KERNER, M.S., inzhener.

Semiautomatic arc welding of dowel pins with built-up  
flux washers. Sudostroenie 22 no.10:33-35 O '56. (MLRA 10:2)

(Electric welding)

KERNER, M.S., inzhener.

Modernization of resistance welding equipment, Sudostroenie 23  
no. 4:45-48 Ap '57. (MLRA 10:5)  
(Electric welding--Equipment and supplies)

## PHASE I BOOK EXPLOITATION 918

Kerner, Mendel' Saulovich

Primeneniye novykh tekhnologicheskikh protsessov svarki (Application of New Welding Techniques) Leningrad. Sudpromgiz, 1958. 132 p.  
3,500 copies printed.

Resp. Ed.: Korobov, P. D.; Ed.: Kuskova, A. I.; Tech. Ed.:  
Shitkova, L. M.

PURPOSE: This booklet is intended for welders, design engineers, and other technical personnel working in the field of shipbuilding.

COVERAGE: The booklet presents an account of plant experience with various types of electric-arc and resistance welding. Various types of automatic and semiautomatic welding equipment and welding techniques are described. The following personalities took part in developing and introducing various welding techniques:

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F. B. Dreyzenshtok, P. D. Korobov, A. D. Sidorov,  
N. V. Kornil'yev, M. S. Kerner, Yu. V. Komissarov, A.S. Felikson,  
M.A. Antipov, F.T. Novikov, P.A. Alekseyev, and V.V. Men'shenin.  
The author thanks engineer D.I. Vaynboym for his valuable comments on the manuscript. There are 9 Soviet references.

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Card 2/5

KERNER, M.S., inzh.

Device for semiautomatic, intermittent welding under flux.  
Sudostroenie 24 no.1:53-55 Ja '58. (MIRA 11:2)  
(Electric welding--Equipment and supplies)

KERNER, M.S., inzh.

Modernization of the ATP-75 contact welding machine. Sudostroenie  
24 no.4:49-51 Ap '59.  
(Electric welding) (MIRA 11:4)

KERNER, M.S., inzh.

Unit used for contact butt welding with automatic preheating.  
Sudostroenie 24 no.7:62-63 Jl '58. (MIRA 11:9)  
(Electric welding)

25(1)

SOV/135-59-5-13/21

AUTHOR: Kerner, M.S., Engineer

TITLE: Saving Acetylene in Steel-Cutting

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 5, pp 32-34 (USSR)

ABSTRACT: The article describes how workers from the Otdel svarki Leningradskogo zavoda im. A.A. Zhdanova (Welding Section of the Leningrad Plant imeni A.A. Zhdanov), the author of the article and Senior Engineer N.V. Kornil'yev have proposed and introduced a method of saving acetylene in oxy-acetylene steel cutting by automatically-reducing the amount of acetylene supplied to the flame when the cutting oxygen is turned on after the metal has been heated to ignition point. It is shown how reduction of the acetylene consumption from 2630 to 140 liters per hour reduces the effective output from 2190 to 340 calories per second thus increasing the efficiency of the flame from 26 to 77% (according to the data of N.N. Rykalin and M.Kh. Shorshorov). VNIIAVTOGEN also showed that the most effective oxygen - acetylene relationship when heating up solid surfaces is 1.7. Descrip-

Card 1/2

SOV/135-59-5-13/21

Saving Acetylene in Steel-Cutting

tions are given of an electro-magnetic valve for economical oxy-acetylene cutting submitted by N.V. Kornilov and a mechanical valve attachment designed by gas welder V.V. Panov. Table 1 shows data on the saving of acetylene when different sizes of nozzles designed by VNIIAVTGEN are used. When this method was introduced into the plant, 50-60% of acetylene was saved in cutting steel 22 mm thick. The annual saving was 28,500 cubic meters. The method would save about 500,000 rubles annually. There are 3 diagrams, 2 graphs, 3 tables and 3 references, 2 of which are Soviet and 1 German.

ASSOCIATION: Leningradskiy zavod im. A. A. Zhdanova (Leningrad Plant imeni A. A. Zhdanova)

Card 2/2

KERNER, M.S., inzh.

Method for economical acetylene-oxygen cutting. Sudostroenie 25 no.1:  
73-76 Ja '59.  
(Gas welding and cutting) (Ships--Welding)

KOROBOV, P.D., inzh.; KERNER, M.S., inzh.

Manufacturing welded superstructures using aluminum-magnesium alloys. Sudostroenie 25 no.5:47-53 My '59.  
(MIRA 12:8)  
(Ships--Welding) (Aluminum-magnesium alloys)

KERNER, M.S., inzh.

Improving the quality of butt-welded bulb-bar frame joints.  
Sudostroenie 26 no. 11:51-55 N '60. (MIRA 14:1)  
(Ships—Welding) (Hulls (Naval architecture))

KERNER, Mendel' Saulovich; LEVCHENKO, Ya.V., inzh., red.; SHILLING, V.A.,  
red. izd-va; BELOGUROVA, I.A., tekhn.red.

[Joining of linoleum sheets by means of welding] Soedinenie listov  
linoleuma svarkoi. Leningrad, 1961. 9 p. (Leningradskii Dom  
nauchno-tehnicheskoi propagandy. Obmen peredovym opyтом. Seriia:  
Stroitel'naya promyshlennost', no.15) (MIRA 14:9)  
(Linoleum)

DZHIVAGA, Ivan Ivanovich; KERNER, M.S., retsenzent; ABRAMOVICH, V.R.,  
retsenzent; RUSSO, V.L., retsenzent; ISKOZ, B.B., nauchnyy red.;  
LISOK, E.I., red.; KRYAKOVA, D.M., tekhn. red.

[Electric arc welding of nonferrous metals and alloys] Elektrodu-  
govaia svarka tsvetnykh metallov i splavov. Leningrad, Gos.  
soiuznoe izd-vo sudostroitel'noi promyshl., 1961. 138 p.  
(MIRA 14:9)

(Nonferrous metals—Welding)

ABELISHVILI, G.V.; VASIL'YEV, V.V.; KERNER, N.A.

Underwater antiseepage screening in reservoirs. Trudy Cruz  
NIIGiM no.21:309-316 '60. (MIRA 16:1)  
(Reservoirs) (Seepage)

ZILAHY, Zoltan, dr.; ALPAR, Gyorgy, dr.; KERNER, Pal, dr.

Lumbar anesthesia with Tetracaine in 250 surgical cases.  
Orv. hetil. 104 no. 41:1936-1938 13 O '63.

(ANESTHESIA, SPINAL) (TETRACAIN)  
(HYSTERECTOMY) (CESAREAN SECTION)  
(ADNEKA UTERI) (VULVA)  
(SURGERY, OPERATIVE)

ZILAHY, Zoltan, dr.; KERNER, Pal, dr.

Our case of simultaneous intra- and extrauterine pregnancy.  
Magy.noorv.lap. 27 no.1:35-38 J '64.

1. A XX. ker. Szülo es nőbetege Korhaz közlemenye.

1. KERNER, S.
  2. USSR (600)
  4. Electric Welding
  7. Examples from contact welding practice, Avtog.delo 24 no. 3, 1953.
- 
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

## PHASE I BOOK EXPLOITATION

835

Kerner, S.S.

Ulavlivaniye pylevidnykh otkhodov tverdykh splavov pri zatochke instrumentov  
(Collecting Hard-alloy Dust Waste in Tool Sharpening) Leningrad, 1955.  
6 p. (Series: Leningradskiy dom nauchno-tehnicheskoy propagandy.  
Informatsionno-tehnicheskiy listok, no. 25 /673) 7,000 copies printed.

Sponsoring Agencies: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh  
i nauchnykh znanii, Leningradskiy dom nauchno-tehnicheskoy propagandy.

Ed.: Verzhbinskaya, I.I.; Tech. Ed.: Gvirts, V.L.

PURPOSE: This booklet is intended for engineers working in the field of  
industrial ventilation and exhaust.

COVERAGE: The booklet describes principles of construction and rules for  
operating the MIOT (Moscow Institute for Protection of Labor) dust collecting  
unit used in sharpening hard-alloy tools. The unit is used not only to  
maintain clean air but also to recover waste materials for useful purposes.

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Collecting Hard-alloy Dust Waste in Tool Sharpening 835  
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It is claimed that this unit is very effective in recovering material  
such as tungsten. In 30 percent of total dust collected, the tungsten  
content was about 22 percent. A complete description and illustration  
of the above unit is presented. No Table of Contents is given. The  
subjects discussed are the following:

1. Operating Principles, Purpose, and Rules for Operating the MIOT Dust Collecting Unit	2
2. The MIOT-54 Exhaust Hood	2
3. Dust Collectors	6
4. Appendix: Simplified Method of Determining Tungsten Content in Dust Wastes Used at the Moscow Machine Tool Building Plant	8

AVAILABLE: Library of Congress

Card 2/2

GO/jmr  
11-10-58

KERNER, Tibor

"Mechanization of labor consuming processes in sugar factories"  
by V.L. Marjancsik [Maryanchik, V.L.], A.V. Budnij [Budniy,  
A.V.], V.A. Bondarenko. Reviewed by Tibor Kerner. Cukor 14  
no.5:3 of cover My '61.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530007-6

KERNER, Tibor

Mechanization of fuel transportation. Cukor 14 no. 11:311-312. N '61

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530007-6"

KERNER, Tibor

"Quality of raw juice due to retaking slice press water into diffusion"  
by I.M.Litvak, A.A. Lipec. Reviewed by Tibor Kerner. Cukor 16 no.2:  
60-61 F '63.

KERNER, Tibor

"Sampling for detecting impurities by means of the Rupro device"  
by I.G.Kazakov, L.E. Sojhet. Reviewed by Tibor Kerner. Cukor 16  
no.2:61 F '63.

KERNER, Tibor

"Sorption of coloring agents by ion exchangers" by A.R.  
Szapronov [Sapronov, A.R.], G.A. Csikin [Chikin, G.A.].  
Reviewed by Tibor Kerner. Cukor 16 no.6:4 of cover  
Je '63.

KERNER, Tibor

"Perlite as a filtering substance" by B.N. Teresin  
[Tereshin, B.N.]. Reviewed by Tibor Kerner. Cukor 16  
no.6:182 Je '63.

KERNER, Tibor

"Steam boiler surface cleaning by soda solutions" by Z.J. Ruvkin.  
Reviewed by Tibor Kerner. Cukor 16 no.7:213 J1 '63.

KERNER, Tibor

"Hydropneumatic testing of the levels of carbonated juice sedimentators" by V.N.Peletminsckij. Reviewed by Tibor Kerner. Cukor 16 no.10:3 of cover 0 '63.

KERNER, Tibor

"Increasing labor productivity as the most important task of the sugar industry" by Sz.I.Pedigres. Reviewed by Tibor Kerner. Cukor 16 no.10:297 0 '63.

KERNER, Tibor

"Experiments for automation of sugar beet transportation" by  
M.A.Turkin. Reviewed by Tibor Kerner. Cukor 17 no.11:316  
N '64.

KERNER, Tibor

"Rational construction of carbonated juice sedimentation apparatus" by Csugunov. Reviewed by Tibor Kerner. Cukor 18 no.3:88 Mr '65.

KERNER, Tibor

"Carbonators in the Soviet sugar factory" by Darlink. Reviewed  
by Tibor Kerner. Culor 18 no.3:99 Mr '65.

KERNER, Tibor

"Simplification of technological patterns" by Borissovics,  
Szofronjuk. Reviewed by Tibor Kerner. Cukor 18 no.3: 6 Mr '65.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530007-6

VOSZTOKOV, A. J. (Soviet Union); TEPESKIN, I. P. (Soviet Union); KENNER, Tibor

Corrected calculation of evaporators. Cukor 18 no.3:72 - M '65.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721530007-6"

KERNER, Tibor

After the 20th Congress of Hungarian Trade Unions. Munka 13  
no.12:17 D'63.

1. 62-es Postahivatal, Budapest.

KERNER, V. K.

Semiautomatic unit for the chemical cleaning of files. Biul.tekh.-  
ekon.inform. no.10:6-8 '60. (MIRA 13:10)  
(Files and rasps)

ODUD, Afanasiy Lukich; KERNER, Ye., red.; MANDEL'BAUM, M., tekhn.red.

[The Moldavian Soviet Socialist Republic] RSS Moldoveniaske.  
Kishineu, Editura de stat a Moldovei, 1957. 271 p. (MIRA 12:8)  
(Moldavia--Physical geography) (Moldavia--Economic conditions)

KERNERMAN, R.P.

Plastic surgery through implantation under the scrotal skin in  
epifascial gangrene of the penis. Urologiia 23 no.4:59 Jl-Ag '58  
(MIRA 11:8)

1. Iz khirurgicheskogo otdeleniya Barabinskoy gorodskoy bol'nitay  
(glavnnyy vrach O.P. Bugrova)  
(PENIS--SURGERY)

KERNERMAN, V.

Ways for overall mechanization and automation of ship repair.  
Mor. flot 25 no.4:28 Ap '65. (MIRA 18:6)

1. Starshiy inzh. Proyektno-konstruktorskogo i tekhnologicheskogo  
instituta Kiyevskogo soveta narodnogo khozyaystva.